PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: JANE MASSEY LICATA LICATA & TYRRELL P.C. 66 E. MAIN STREET MARLTON, NJ 08053



NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of Mailing (day/month/year)

23 not 2001

Applicant's or agent's file reference

PENN-0723

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority Date (day/month/year)

PCT/US00/21789

10 AUGUST 2000

19 AUGUST 1999

Applicant

THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of 3. the report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume Π of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (708) 805-8280

Authorized officer

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PENN-0723	FOR FURTHER ACTION	Prelimina	
International application No.	International filing date (day/	PCT/IPEA month/year)	Priority date (day/month/year)
PCT/US00/21789	10 AUGUST 2000		19 AUGUST 1999
International Patent Classification (IPC) IPC(7): Go1N 33/53; C12N 9/00; A6			2
Applicant THE TRUSTEES OF THE UNIVERSE	SITY OF PENNSYLVANIA		
Examining Authority and is	transmitted to the applicant		red by this International Preliminary Article 36.
2. This REPORT consists of a	total of 4 sheets.		
This report is also accome been amended and are the (see Rule 70.16 and Section 1).	panied by ANNEXES, i.e., she le basis for this report and/or sh ion 607 of the Administrative I	eets containin	ription, claims and/or drawings which have ag rectifications made before this Authority. ader the PCT).
These annexes consist of a to	tal of sheets.		
3. This report contains indication	ns relating to the following it	ems:	
I X Basis of the repo	rt		
II Priority			
III Non-establishme	nt of report with regard to no	ovelty, invent	ive step or industrial applicability
IV Lack of unity of	invention		
	nt under Article 35(2) with reg mations supporting such statem		, inventive step or industrial applicability;
VI Certain documents	cited		
VII Certain defects in t	he international application		
VIII Certain observation	s on the international applicat	ion	
Date of submission of the demand	Date	of completion	n of this report
16 MARCH 2001		5 SEPTEMB	ER 2001
Name and mailing address of the IPEA	V	drized officer	Bridgers,
Commissioner of Patents and Traden Box PCT Washington, D.C. 20231	narks	EBORAH CI	ROUCH, PH.D.
Facsimile No. (703) 305-3230	Tel	phone No.	(703) 308-0196

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/21789

I. Basis of the report	
With regard to the elements of the internal	ational application:*
the international application as	**
the description:	6
pages (See Attached)	as originally filed
	, filed with the demand
	, filed with the letter of
the claims: pages (See Attached)	11. 61. 3
	, as amended (together with any statement) under Article 19
	, as amended (together with any statement) under Article 19
	, filed with the letter of
X the drawings:	
pages (See Attached)	, as originally filed
	, filed with the letter of, filed with the demand
pages	, fried with the letter of
X the sequence listing part of the c	lescription:
pages (See Attached)	, as originally filed
	, filed with the demand
pages	, filed with the letter of
These elements were available or furnish the language of a translation fu the language of publication of the	unless otherwise indicated under this item. hed to this Authority in the following language which is: rnished for the purposes of international search (under Rule 23.1(b)). the international application (under Rule 48.3(b)). hished for the purposes of international preliminary examination (under Rules 55.2 and/
preliminary examination was carried	r amino acid sequence disclosed in the international application, the international out on the basis of the sequence listing:
contained in the international a	pplication in printed form.
filed together with the internati	onal application in computer readable form.
furnished subsequently to this A	Authority in written form.
furnished subsequently to this A	Authority in computer readable form.
The statement that the subsequen international application as filed	tly furnished written sequence listing does not go beyond the disclosure in the has been furnished.
The statement that the information been furnished.	recorded in computer readable form is identical to the writen sequence listing has
4. X The amendments have resulted	in the cancellation of:
X the description, pages	NONE
the claims, Nos.	NONE
X the drawings, sheets/fig	NONE
	ome of) the amendments had not been made, since they have been considered to go indicated in the Supplemental Box (Rule 70.2(c)).**
* Replacement sheets which have been furn	ished to the receiving Office in response to an invitation under Article 14 are referred to are not annexed to this report since they do not contain amendments (Rules 70.16
	amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/21789

Claims	1-10	
Claims	NONE	N
Claims	1-10	
Claims	NONE	N
Claims	1-10	
Claims	NONE	N
	the objections stated in the 408 I	mailed 12 June 2001.
	Claims Claims Claims Claims Claims 70.7) T Article 33(2)-in B or an inhibh the somatolac T Article 33(+) i	Claims 1-10 Claims NONE Claims 1-10 Claims NONE Claims NONE 70.7) The Article 33(2)-(3), because the prior art does not in B or an inhibitor of the interaction of cyclophic the somatolactogenic hormones prolactin and grant article 33(4) for industrial applicability. The Article 33(4) for industrial applicability.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/21789

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

I. BASIS OF REPORT:

This report has been drawn on the basis of the description, page(s) 1-13, as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the claims, page(s) NONE, as originally filed.
page(s) NONE, as amended under Article 19.
page(s) NONE, filed with the demand.
and additional amendments:
Pages 14 and 15, filed with the letter of 09 August 2001.

This report has been drawn on the basis of the drawings, page(s) NONE, as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the sequence listing part of the description: page(s) NONE, as originally filed.
pages(s) NONE, filed with the demand.
and additional amendments:
NONE

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/21789

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) :G01N 33/53; C12N 9/00; A61K 38/00			
US CL :435/7.1, 183+; 514/12 According to International Patent Classification (IPC) or to	both national alessification and IDC		
B. FIELDS SEARCHED	Cour matterial cassification and IFC		
Minimum documentation searched (classification system fo	Name d has about Production and all a		
	nowed by classification symbols)		
U.S. : 435/7.1, 183+; 514/12			
Dogumentation consulted others than the control of			
Documentation searched other than minimum documentation	to the extent that such documents are included	in the fields searched	
Plantonia data hara completed design at a incident			
Electronic data base consulted during the international sear	on (name of data base and, where practicable	e, scarch terms used)	
WEST; CAPLUS; BIOSIS; EMBASE; MEDLINE			
C. DOCUMENTS CONSIDERED TO BE RELEVAN	T .		
Category* Citation of document, with indication, whe	are anomoriste, of the wievent passages	Relevant to claim No.	
-67 Community with minimation, with		ACIEVANT IO COM NO.	
Y PRICE et al. Human Cyclophilin	B: A Second Cyclophilin Gene	1-10	
Encodes a Peptidyl-Prolyl Isomeras	se with a Signal Sequence, Proc.		
Natl. Acad. Sci. (USA). March 199		-,	
especially pages 1906-1907.	, , , , , , , , , , , , , , , , , , , ,		
Y ALLAIN et al. Characterization	of Surface Binding Sites for	1-10	
Cyclophilin B on a Human Tumor		1	
Chemistry. 17 June 1994, Vol. 269			
especially page 16540.			
informa, page 100 to.			
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·			
X Further documents are listed in the continuation of B	ox C. See patent family annex.		
* Special categories of cited documents: "T" later document published after the international filing date or priority			
A document defining the general state of the art which is not considered the principle or theory underlying the pression			
"B" series decrease sublished on or other the international filting de	eye downer of auticular columns at		
"L" earlier document published on or after the international filing de "L" document which may throw doubts on priority chim(s) or which	considered novel or cannot be consider	ed to involve as investive step	
cited to establish the publication data of enother citation or of special reason (as specified)		claimed invention cannot be	
O document referring to an oral disclosure, use, exhibition or of	considered to involve an inventive	step when the document is	
Beess .	being obvious to a person skilled in t	ne est	
"P" document published prior to the international filing date but later the priority date claimed	ten "&" document member of the same patent	family	
Date of the actual completion of the international search	Date of mailing of the international sea	rch report	
10 SEPTEMBER 2000	22 SFP 2	000	
Name and mailing address of the ISA/US	Authorized officer	72 /	
Commissioner of Patents and Trademarks	Andrew Other	PMCIN	
Box PCT Washington, D.C. 20231	DEBORAH CROYOH, PH.D.	P	
Pacaimile No. (703) 305-3230	Telephone No. (703) 308 0196	90	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/21789

	PCT/USO	W21789
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y .	MERTANI et al. Cellular Expression of Growth Hormone and Prolactin Receptors in Human Breast Disorders. International Journal of Cancer. 1998, Vol. 79, pages 202-211, especially page 207-209.	1-10
Y	MARILLER et al. Involvement of the N-Terminal Part of Cyclophilin B in the Interaction with Specific Jurkat T-Cell Binding Sites. Biochemical Journal. 1996, Vol. 317, pages 571-576, see especially pages 575-576.	1-10
Y	DENYS et al. Involvement of Two Classes of Binding Sites in the Interactions of Cyclophilin B with Peripheral Blood T-Lymphocytes. Biochemical Journal. 1998, Vol. 336, pages 689-697, see especially pages 695-696.	1-10
	DENYS, A. et al. Distribution of Cyclophilin B-Binding Sites in the Subsets of Human Peripheral Blood Lymphocytes. Immunology. 1997, Vol. 91, 609-617, see especially pages 614-616.	9 and 10
	ALLAIN et al. Selective Assay for CyPA and CyPB in Human Blood using Highly Specific Anti-Peptide Antibodies. Journal of Immunological Methods. 1995, Vol. 178, pages 113-120, see especially pages 118 and 119.	9 and 10
	PRICE et al. Cyclophilin B Trafficking through the Secretory Pathway is Altered by Binding of Cyclosporin A. Proc. Natl. Acad Sci. (USA). April 1994, Vol. 91, pages 3931-3935, see especially pages 3934 and 3935.	1-10
7	US 5,523,227 A (BRAM et al) 04 June 1996, col. 5, lines 63-676, col. 6, line 66 to 67, and col. 8, lines 33-36 55-63.	1-10
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PATENT COOPERATION TREATY

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		From the INTERNATIONAL BUREAU		
V	PCT	То:		
	NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422)	POPLAWSKI, Edward, G. Sidley & Austin 555 West Fifth Street Los Angeles, CA 90013-1010		
	Date of mailing (day/month/year)	ETATS-UNIS D'AMERIQUE		
	23 April 2001 (23.04.01)	·		
	Applicant's or agent's file reference PENN-0723	IMPORTANT NOTIFICATION		
	International application No.	International filing date (day/month/year) 10 August 2000 (10,08.00)		
	The following indications appeared on record concerning: the applicant	X the agent the common representative		
	Name and Address LICATA, Jane, Massey Law Offices of Jane Massey Licata 66 E. Main Street Mariton, NJ 08055 United States of America	State of Nationality Talephone No. (866)810-1515 Facalmile No. (856)810-1454 Teleprinter No.		
1	The International Bureau hereby notifies the applicant that the IX the person the name the add			
	Name and Address POPLAWSKI, Edward, G. Sidley & Austin 555 West Fifth Street Los Angeles, CA 90013-1010 United States of America	State of Nationality Telephone No. 213/896-6601 Facsimile No. 213/896-6600 Teleprinter No.		
\Rightarrow	3. Further observations, if necessary: A power of attorney appointing the new agent is	required for further action.		
F	4. A copy of this notification has been sent to: X the receiving Office	X the designated Offices concerned		
	the International Searching Authority the International Preliminary Examining Authority	the elected Offices concerned other:		
	the International Preliminary Examining Authority			